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PTO/SB/05 (4/98)  
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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. 500.37418CX1

First Inventor or Application Identifier Toshiaki SUZUKI

Title LAYER-CODED DATA TRANSMITTING APPARATUS

Express Mail Label No.

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 28]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the invention
  - Brief Summary of the invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
4. Oath or Declaration [Total Pages 2]
  - a. ☐ Newly executed (original or copy)
  - b. ☒ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
    - i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

\* NOTE FOR ITEMS 1 & 13 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
  - a. ☐ Computer Readable Copy
  - b. ☐ Paper Copy (identical to computer copy)
  - c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement of Power of Attorney (when there is an assignee)
9. ☐ English Translation Document (if applicable)
10. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☒ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
  - \* Small Entity ☐ Statement filed in prior application Status still proper and desired (PTO/SB/09-12)
13. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
14. ☐ Other: .....
15. ☐ Other: .....

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: 09/389,455

Prior application Information: Examiner Not yet assigned

Group / Art Unit: 2731

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

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Carl I. Brundidge

Registration No. (Attorney/Agent)

29,621

Signature

Date

July 28, 2000

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# FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision.  
Small Entity payments must be supported by a small entity statement,  
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.  
See 37 C.F.R. §§ 1.27 and 1.28.

TOTAL AMOUNT OF PAYMENT (\$)**690.00**

## Complete if Known

Application Number  
Filing Date **July 28, 2000**  
First Named Inventor **Toshiaki SUZUKI**  
Examiner Name **Not assigned**  
Group / Art Unit **2731**  
Attorney Docket No. **500.37418CX1**

1-075 U.S. PTO  
09/28/99



| METHOD OF PAYMENT (check one)  | FEE CALCULATION (continued)  |                 |                 |  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
|--|--|-----------------|-----------------|--|--------------------|-----------------|----------|-----|-----|-----|--------------------|-------------------------------------|------|-----|-----|-----|-------------------|--|------|-----|-----|-----|------------------|---------------------------|------|-----|-------|-----|--------------------|--|------|-----|------|-----|------------------------|--|---------------------|-----|--------|-----|--------|---|--------------|--------------|----------------|----------|----|--|------|-----|--------------------|-------------|-----|---|--------------------|-----|-----|-----|----------------|--|----------------|-----------------|-----------------|----------|-----|---|------|-----|------------------------|-----|-----|--|------|-----|-----------------------------------|-----|-----|------------------|------|-----|---------------------------------------|-----|-----|--|------|-----|--|-----|-----|--------------------------|------|-----|--|-----|---------------------|---|------|-----|-----|------------------|--------------------------------------|----------------------------------|------|-----|-------|-----|-----|------------------------------------|------|-----|-------|-----|-----|--------------------------------|------|-----|-----|-----|-----|------------------|------|-----|-----|-----|-----|-----------------|------|-----|-----|-----|-----|-------------------------------|------|-----|----|-----|----|---|------|-----|-----|-----|-----|---|------|-----|----|-----|----|--|------|-----|-----|-----|-----|---|------|-----|-----|-----|-----|--|------|---------------------------|--|--|--|--|------|---------------------------|--|--|--|--|------|------------------------------------|--|--|--|--|
| <p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number <input style="width:150px;" type="text"/></p> <p>Deposit Account Name <input style="width:150px;" type="text"/></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:<br/> <input type="checkbox"/> Check    <input type="checkbox"/> Money Order    <input checked="" type="checkbox"/> Other</p>   | <p>3. ADDITIONAL FEES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td>0.00</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td>0.00</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td>0.00</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td>0.00</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td>0.00</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td>0.00</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td>0.00</td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td>0.00</td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td>0.00</td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td>0.00</td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td>0.00</td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td>0.00</td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td>0.00</td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td>0.00</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td>0.00</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td>0.00</td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td>0.00</td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td>0.00</td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td>0.00</td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td>0.00</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td>0.00</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td>0.00</td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td>0.00</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>0.00</td></tr> <tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td>0.00</td></tr> <tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td>0.00</td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td>0.00</td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td>0.00</td></tr> <tr> <td colspan="5" style="text-align: right;">* Reduced by Basic Filing Fee Paid</td> </tr> </tbody> </table> | Large Fee Code  | Entity Fee (\$) | Small Fee Code   | Entity Fee (\$)    | Fee Description | Fee Paid | 105 | 130 | 205 | 65                 | Surcharge - late filing fee or oath | 0.00 | 127 | 50  | 227 | 25                | Surcharge - late provisional filing fee or cover sheet | 0.00 | 139 | 130 | 139 | 130              | Non-English specification | 0.00 | 147 | 2,520 | 147 | 2,520              | For filing a request for reexamination | 0.00 | 112 | 920* | 112 | 920*                   | Requesting publication of SIR prior to Examiner action | 0.00                | 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action | 0.00         | 115          | 110            | 215      | 55 | Extension for reply within first month | 0.00 | 116 | 380                | 216         | 190 | Extension for reply within second month | 0.00               | 117 | 870 | 217 | 435            | Extension for reply within third month | 0.00           | 118             | 1,360           | 218      | 680 | Extension for reply within fourth month | 0.00 | 128 | 1,850                  | 228 | 925 | Extension for reply within fifth month | 0.00 | 119 | 300                               | 219 | 150 | Notice of Appeal | 0.00 | 120 | 300                                   | 220 | 150 | Filing a brief in support of an appeal | 0.00 | 121 | 260  | 221 | 130 | Request for oral hearing | 0.00 | 138 | 1,510  | 138 | 1,510               | Petition to institute a public use proceeding | 0.00 | 140 | 110 | 240              | 55                                   | Petition to revive - unavoidable | 0.00 | 141 | 1,210 | 241 | 605 | Petition to revive - unintentional | 0.00 | 142 | 1,210 | 242 | 605 | Utility issue fee (or reissue) | 0.00 | 143 | 430 | 243 | 215 | Design issue fee | 0.00 | 144 | 580 | 244 | 290 | Plant issue fee | 0.00 | 122 | 130 | 122 | 130 | Petitions to the Commissioner | 0.00 | 123 | 50 | 123 | 50 | Petitions related to provisional applications | 0.00 | 126 | 240 | 126 | 240 | Submission of Information Disclosure Stmt | 0.00 | 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | 0.00 | 146 | 690 | 246 | 345 | Filing a submission after final rejection (37 CFR § 1.129(a)) | 0.00 | 149 | 690 | 249 | 345 | For each additional invention to be examined (37 CFR § 1.129(b)) | 0.00 | Other fee (specify) _____ |  |  |  |  | 0.00 | Other fee (specify) _____ |  |  |  |  | 0.00 | * Reduced by Basic Filing Fee Paid |  |  |  |  |
| Large Fee Code   | Entity Fee (\$)  | Small Fee Code  | Entity Fee (\$) | Fee Description  | Fee Paid           |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 105  | 130  | 205             | 65              | Surcharge - late filing fee or oath  | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 127  | 50   | 227             | 25              | Surcharge - late provisional filing fee or cover sheet                     | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 139  | 130  | 139             | 130             | Non-English specification  | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 147  | 2,520  | 147             | 2,520           | For filing a request for reexamination                                     | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 112  | 920*   | 112             | 920*            | Requesting publication of SIR prior to Examiner action                     | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 113  | 1,840*   | 113             | 1,840*          | Requesting publication of SIR after Examiner action                        | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 115  | 110  | 215             | 55              | Extension for reply within first month                                     | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 116  | 380  | 216             | 190             | Extension for reply within second month                                    | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 117  | 870  | 217             | 435             | Extension for reply within third month                                     | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 118  | 1,360  | 218             | 680             | Extension for reply within fourth month                                    | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 128  | 1,850  | 228             | 925             | Extension for reply within fifth month                                     | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 119  | 300  | 219             | 150             | Notice of Appeal   | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 120  | 300  | 220             | 150             | Filing a brief in support of an appeal                                     | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 121  | 260  | 221             | 130             | Request for oral hearing   | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 138  | 1,510  | 138             | 1,510           | Petition to institute a public use proceeding                              | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 140  | 110  | 240             | 55              | Petition to revive - unavoidable   | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 141  | 1,210  | 241             | 605             | Petition to revive - unintentional   | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 142  | 1,210  | 242             | 605             | Utility issue fee (or reissue)   | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 143  | 430  | 243             | 215             | Design issue fee   | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 144  | 580  | 244             | 290             | Plant issue fee  | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 122  | 130  | 122             | 130             | Petitions to the Commissioner  | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 123  | 50   | 123             | 50              | Petitions related to provisional applications                              | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 126  | 240  | 126             | 240             | Submission of Information Disclosure Stmt                                  | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 581  | 40   | 581             | 40              | Recording each patent assignment per property (times number of properties) | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 146  | 690  | 246             | 345             | Filing a submission after final rejection (37 CFR § 1.129(a))              | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 149  | 690  | 249             | 345             | For each additional invention to be examined (37 CFR § 1.129(b))           | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| Other fee (specify) _____  |  |                 |                 |  | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| Other fee (specify) _____  |  |                 |                 |  | 0.00               |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| * Reduced by Basic Filing Fee Paid   |  |                 |                 |  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| <p><b>FEE CALCULATION</b></p> <p>1. BASIC FILING FEE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td>690.00</td></tr> <tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;"><b>SUBTOTAL (1)</b></td> <td><b>(\$ 690.00)</b></td> </tr> </tbody> </table> <p>2. EXTRA CLAIM FEES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>-20** = 0</td> <td>18</td> <td>0</td> </tr> <tr> <td>Independent Claims</td> <td>3 - 3** = 0</td> <td>78</td> <td>0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td>0</td> </tr> </tbody> </table> <p>**or number previously paid, if greater; For Reissues, see below</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;"><b>SUBTOTAL (2)</b></td> <td><b>(\$ 0.00)</b></td> </tr> </tbody> </table> | Large Fee Code   | Entity Fee (\$) | Small Fee Code  | Entity Fee (\$)  | Fee Description    | Fee Paid        | 101      | 690 | 201 | 345 | Utility filing fee | 690.00                              | 106  | 310 | 206 | 155 | Design filing fee |  | 107  | 480 | 207 | 240 | Plant filing fee |                           | 108  | 690 | 208   | 345 | Reissue filing fee |  | 114  | 150 | 214  | 75  | Provisional filing fee |  | <b>SUBTOTAL (1)</b> |     |        |     |        | <b>(\$ 690.00)</b>                                  | Total Claims | Extra Claims | Fee from below | Fee Paid | 3  | -20** = 0                              | 18   | 0   | Independent Claims | 3 - 3** = 0 | 78  | 0                                       | Multiple Dependent |     |     | 0   | Large Fee Code | Entity Fee (\$)                        | Small Fee Code | Entity Fee (\$) | Fee Description | Fee Paid | 103 | 18                                      | 203  | 9   | Claims in excess of 20 |     | 102 | 78                                     | 202  | 39  | Independent claims in excess of 3 |     | 104 | 260              | 204  | 130 | Multiple dependent claim, if not paid |     | 109 | 78                                     | 209  | 39  | ** Reissue independent claims over original patent |     | 110 | 18                       | 210  | 9   | ** Reissue claims in excess of 20 and over original patent |     | <b>SUBTOTAL (2)</b> |   |      |     |     | <b>(\$ 0.00)</b> | <p><b>SUBTOTAL (3)</b> (\$ 0.00)</p> |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| Large Fee Code   | Entity Fee (\$)  | Small Fee Code  | Entity Fee (\$) | Fee Description  | Fee Paid           |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 101  | 690  | 201             | 345             | Utility filing fee   | 690.00             |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 106  | 310  | 206             | 155             | Design filing fee  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 107  | 480  | 207             | 240             | Plant filing fee   |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 108  | 690  | 208             | 345             | Reissue filing fee   |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 114  | 150  | 214             | 75              | Provisional filing fee   |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| <b>SUBTOTAL (1)</b>  |  |                 |                 |  | <b>(\$ 690.00)</b> |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| Total Claims   | Extra Claims   | Fee from below  | Fee Paid        |  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 3  | -20** = 0  | 18              | 0               |  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| Independent Claims   | 3 - 3** = 0  | 78              | 0               |  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| Multiple Dependent   |  |                 | 0               |  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| Large Fee Code   | Entity Fee (\$)  | Small Fee Code  | Entity Fee (\$) | Fee Description  | Fee Paid           |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 103  | 18   | 203             | 9               | Claims in excess of 20   |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 102  | 78   | 202             | 39              | Independent claims in excess of 3  |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 104  | 260  | 204             | 130             | Multiple dependent claim, if not paid                                      |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 109  | 78   | 209             | 39              | ** Reissue independent claims over original patent                         |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| 110  | 18   | 210             | 9               | ** Reissue claims in excess of 20 and over original patent                 |                    |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |
| <b>SUBTOTAL (2)</b>  |  |                 |                 |  | <b>(\$ 0.00)</b>   |                 |          |     |     |     |                    |                                     |      |     |     |     |                   |  |      |     |     |     |                  |                           |      |     |       |     |                    |  |      |     |      |     |                        |  |                     |     |        |     |        |   |              |              |                |          |    |  |      |     |                    |             |     |   |                    |     |     |     |                |  |                |                 |                 |          |     |   |      |     |                        |     |     |  |      |     |                                   |     |     |                  |      |     |                                       |     |     |  |      |     |  |     |     |                          |      |     |  |     |                     |   |      |     |     |                  |                                      |                                  |      |     |       |     |     |                                    |      |     |       |     |     |                                |      |     |     |     |     |                  |      |     |     |     |     |                 |      |     |     |     |     |                               |      |     |    |     |    |   |      |     |     |     |     |   |      |     |    |     |    |  |      |     |     |     |     |   |      |     |     |     |     |  |      |                           |  |  |  |  |      |                           |  |  |  |  |      |                                    |  |  |  |  |

| SUBMITTED BY      |                         | Complete (if applicable)          |                      |
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|                   |                         | Date                              | <b>July 28, 2000</b> |

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